

PROJECT TITLE : CIGARETTE DEVELOPMENT - TECHNICAL REPORT  
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G E R M A N Y

233 COUNTRY

Objective

To solve the following problems encountered with the product presently in the city test in Berlin :

1. Decreasing nicotine level
2. Visibility of electro-perforated tipping paper zone
3. Harshness and dryness

Description of samples and results

In view of the decreasing nicotine level (observed from January to July 1980) the blend composition of this project had to be revised and a new leaf formula has been established.

With the aim to improve the aspect, several European suppliers were asked to submit us the alternatives of the presently used Z3/70 tipping paper from Benkert.

The following tipping papers were evaluated :

BENKERT : TH6/1 Z3/70      |  
              TH6/2 Z3/70      | Modification of basic paper  
              TH6/0175 Z3/70    |

MALAUCENE : Micro-laser perforated 3 x M. 0.11 . 6.5

ENTERLEIN : Z3/70  
              3 x M. 0.11 . 6.5 micro-laser perforated by  
              Malaucène  
              Z3/70 electro-perforated by Tann

In order to diminish harshness and dryness trials have been carried out with :

- Three plasticizers at two concentration levels on the filter
- Citrate type cigarette paper Pela 200 MNC
- DAP treated stems using the following concentrations : 0.5 %, 1 %, 1.5 % based on stem weight

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All prototypes have been taste evaluated. The version using the Pela 200 MNC cigarette paper is considered as a very good quality cigarette, clean and close to the present undiluted MLK and shows a real improvement. The analytical figures correspond to the objective.

Lately the aspect of electro-perforations of the Z3/70 tipping paper from Benkert seems to be improved.

In view of these positive facts this prototype is the final version and will probably be introduced in the foreseen product test.

335 LOLITA

Objective

The development of a full flavour cigarette having taste characteristics close to the L & M brands.

K = 10 mg/cig.

N = 0.8 mg/cig.

Description of samples and results

Three versions (32, 33 and 34) using the same specifications (Burley casing, Burley Top Flavour and PC are according to standard MARLBORO) but different AC solutions were product tested against MARLBORO LIGHTS.

In spite of the excellent position of prototype 33 it must be pointed out that the taste direction deviates from the L & M family.

In view of this, the flavour concept was revised and a new flavour system (Burley casing, PC and AC solutions) was developed in Richmond.

Trials following the specifications of the product test cigarettes have been carried out with the new flavour system. The aim of these trials is to have a candidate with requested taste characteristics which can be taken as a basis for a possible CF application.

The best taste results were obtained by using the new flavour system but with a lower rate of AC application (70 % of recommended 23 l/1'000 kg).

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